



SEQUENCE LISTING

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<140> 09/905,129

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<150> 09/802,318

<151> 2001-03-08

<150> 60/207,821

<151> 2000-05-30

<150> 60/084,944

<151> 1998-05-11

<150> 60/085,673

<151> 1998-05-15

<160> 25

<170> PatentIn version 3.0

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<212> DNA

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<221> misc_feature

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Arg Gly Phe Tyr Lys Cys Val Ala Ser Asn Pro Ser Gly Gln Asp	1790	1795	1800
Ser Leu Leu Val Lys Ile Gln Val Ile Thr Ala Pro Pro Val Ile	1805	1810	1815
Ile Glu Gln Lys Arg Gln Ala Ile Val Gly Val Leu Gly Gly Ser	1820	1825	1830
Leu Lys Leu Pro Cys Thr Ala Lys Gly Thr Pro Gln Pro Ser Val	1835	1840	1845
His Trp Val Leu Tyr Asp Gly Thr Glu Leu Lys Pro Leu Gln Leu	1850	1855	1860
Thr His Ser Arg Phe Phe Leu Tyr Pro Asn Gly Thr Leu Tyr Ile	1865	1870	1875
Arg Ser Ile Ala Pro Ser Val Arg Gly Thr Tyr Glu Cys Ile Ala	1880	1885	1890
Thr Ser Ser Ser Gly Ser Glu Arg Arg Val Val Ile Leu Thr Val	1895	1900	1905
Glu Glu Gly Glu Thr Ile Pro Arg Ile Glu Thr Ala Ser Gln Lys	1910	1915	1920
Trp Thr Glu Val Asn Leu Gly Glu Lys Leu Leu Leu Asn Cys Ser	1925	1930	1935
Ala Thr Gly Asp Pro Lys Pro Arg Ile Ile Trp Arg Leu Pro Ser	1940	1945	1950
Lys Ala Val Ile Asp Gln Trp His Arg Met Gly Ser Arg Ile His	1955	1960	1965
Val Tyr Pro Asn Gly Ser Leu Val Val Gly Ser Val Thr Glu Lys	1970	1975	1980
Asp Ala Gly Asp Tyr Leu Cys Val Ala Arg Asn Lys Met Gly Asp	1985	1990	1995
Asp Leu Val Leu Met His Val Arg Leu Arg Leu Thr Pro Ala Lys	2000	2005	2010

Val Val	Gln Leu Glu Val	Leu	Glu Met Leu Arg Arg	Pro Thr Phe
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Asn Lys	Val Gly Tyr Ile Glu	Lys Leu Ile Leu Leu	Glu Ile Gly	
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Gln Lys	Pro Val Ile Leu Thr	Tyr Glu Pro Gly Met	Val Lys Ser	
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Pro Lys	Pro Asn Val Lys Trp	Thr Thr Pro Gly Gly	His Val Ile	
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Asp Arg	Pro Gln Val Asp Gly	Lys Tyr Ile Leu His	Glu Asn Gly	
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Ile Cys	Arg Ala Gln Asn Ser	Val Gly Gln Ala Val	Ile Ser Val	
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Ser Val	Met Val Val Ala Tyr	Pro Pro Arg Ile Ile	Asn Tyr Leu	
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 <212> DNA
 <213> Mus musculus
 <220>
 <221> misc_feature

<222> (1)..(897)
 <223> 'n' can be any nucleotide 'a', 'c', 'g' or 't'.

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Phe Ser Ser His Pro Ser Gly Ser His Thr Thr Ala Ser Ser Leu Phe
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His Ile Pro Arg Asn Asn Asn Thr Gly Asn Phe Pro Leu Ser Arg His
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Asp Lys Gln Asn Val Asp Ile Glu Ile Ile Thr Thr Thr Thr Lys
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Pro Ser Ile Pro Thr Ser Thr Lys Phe Ser Lys Arg Lys Thr Pro
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Arg	Ser	Glu	Met	Leu	His	Pro	Gln	Gly	Thr	Leu	Val	Ile	Gln	Asn
2555						2560					2565			
Leu	Gln	Thr	Ser	Asp	Ser	Gly	Val	Tyr	Lys	Cys	Arg	Ala	Gln	Asn
2570						2575					2580			
Leu	Leu	Gly	Thr	Asp	Tyr	Ala	Thr	Thr	Tyr	Ile	Gln	Val	Leu	
2585						2590					2595			

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<210> 11
<211> 2586
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(2586)
<223> 'x' can be any amino acid
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<400> 11

Met Lys Val Lys Gly Arg Gly Ile Thr Cys Leu Leu Val Ser Phe Ala

	1775					1780					1785				
Val	Ala	Ser	Asn	Pro	Gly	Gly	Gln	Asp	Ser	Leu	Leu	Val	Lys	Ile	
	1790					1795					1800				
Gln	Val	Ile	Ala	Ala	Pro	Pro	Val	Ile	Leu	Glu	Gln	Arg	Arg	Gln	
	1805					1810					1815				
Val	Ile	Val	Gly	Thr	Trp	Gly	Glu	Ser	Leu	Lys	Leu	Pro	Cys	Thr	
	1820					1825					1830				
Ala	Lys	Gly	Thr	Pro	Gln	Pro	Ser	Val	Tyr	Trp	Val	Leu	Ser	Asp	
	1835					1840					1845				
Gly	Thr	Glu	Val	Lys	Pro	Leu	Gln	Phe	Thr	Asn	Ser	Lys	Leu	Phe	
	1850					1855					1860				
Leu	Phe	Ser	Asn	Gly	Thr	Leu	Tyr	Ile	Arg	Asn	Leu	Ala	Ser	Ser	
	1865					1870					1875				
Asp	Arg	Gly	Thr	Tyr	Glu	Cys	Ile	Ala	Thr	Ser	Ser	Thr	Gly	Ser	
	1880					1885					1890				
Glu	Arg	Arg	Val	Val	Met	Leu	Thr	Met	Glu	Glu	Arg	Val	Thr	Ser	
	1895					1900					1905				
Pro	Arg	Ile	Glu	Ala	Ala	Ser	Gln	Lys	Arg	Thr	Glu	Val	Asn	Phe	
	1910					1915					1920				
Gly	Asp	Lys	Leu	Leu	Leu	Asn	Cys	Ser	Ala	Thr	Gly	Glu	Pro	Lys	
	1925					1930					1935				
Pro	Gln	Ile	Met	Trp	Arg	Leu	Pro	Ser	Lys	Ala	Val	Val	Asp	Gln	
	1940					1945					1950				
Gly	Ser	Trp	Ile	His	Val	Tyr	Pro	Asn	Gly	Ser	Leu	Phe	Ile	Gly	
	1955					1960					1965				
Ser	Val	Thr	Glu	Lys	Asp	Ser	Gly	Val	Tyr	Leu	Cys	Val	Ala	Arg	
	1970					1975					1980				
Asn	Lys	Met	Gly	Asp	Asp	Leu	Ile	Leu	Met	His	Val	Ser	Leu	Arg	
	1985					1990					1995				
Leu	Lys	Pro	Ala	Lys	Ile	Asp	His	Lys	Gln	Tyr	Phe	Arg	Lys	Gln	
	2000					2005					2010				
Val	Leu	His	Gly	Lys	Asp	Phe	Gln	Val	Asp	Cys	Lys	Ala	Ser	Gly	
	2015					2020					2025				
Ser	Pro	Val	Pro	Glu	Ile	Ser	Trp	Ser	Leu	Pro	Asp	Gly	Thr	Met	
	2030					2035					2040				
Ile	Asn	Asn	Ala	Met	Gln	Ala	Asp	Asp	Ser	Gly	His	Arg	Thr	Arg	
	2045					2050					2055				
Arg	Tyr	Thr	Leu	Phe	Asn	Asn	Gly	Thr	Leu	Tyr	Phe	Asn	Lys	Val	

<222> (1)..(236)
 <223> 'x' can be any amino acid

<400> 12

Met	Gln	Lys	Arg	Gly	Arg	Glu	Val	Ser	Cys	Leu	Leu	Ile	Ser	Leu	Thr	1	5	10	15
Ala	Ile	Cys	Leu	Val	Val	Thr	Pro	Gly	Ser	Arg	Val	Cys	Pro	Arg	Arg	20	25	30	
Cys	Ala	Cys	Tyr	Val	Pro	Thr	Glu	Val	His	Cys	Thr	Phe	Arg	Asp	Leu	35	40	45	
Thr	Ser	Ile	Pro	Asp	Gly	Pro	Ala	Asn	Val	Glu	Arg	Val	Asn	Leu	Gly	50	55	60	
Tyr	Asn	Ser	Leu	Thr	Arg	Leu	Thr	Glu	Asn	Asp	Phe	Ser	Gly	Leu	Ser	65	70	75	80
Arg	Leu	Glu	Leu	Leu	Met	Leu	His	Ser	Asn	Gly	Ile	His	Arg	Val	Ser	85	90	95	
Asp	Lys	Thr	Phe	Ser	Gly	Leu	Gln	Ser	Leu	Gln	Val	Leu	Lys	Met	Ser	100	105	110	
Tyr	Asn	Lys	Val	Gln	Ile	Ile	Glu	Lys	Asp	Thr	Leu	Tyr	Gly	Leu	Arg	115	120	125	
Ser	Leu	Thr	Arg	Leu	His	Leu	Asp	His	Asn	Asn	Ile	Glu	Phe	Ile	Asn	130	135	140	
Pro	Glu	Ala	Phe	Tyr	Gly	Leu	Thr	Leu	Leu	Arg	Leu	Val	His	Leu	Glu	145	150	155	160
Gly	Asn	Arg	Leu	Thr	Lys	Leu	His	Pro	Asp	Thr	Phe	Val	Ser	Leu	Ser	165	170	175	
Tyr	Leu	Gln	Ile	Phe	Lys	Thr	Ser	Phe	Ile	Lys	Xaa	Leu	Tyr	Leu	Tyr	180	185	190	
Asp	Asn	Phe	Thr	Ser	Leu	Pro	Lys	Glu	Met	Val	Ser	Ser	Met	Pro	Asn	195	200	205	
Leu	Glu	Ser	Leu	Tyr	Leu	His	Gly	Asn	Pro	Trp	Thr	Cys	Asp	Cys	His	210	215	220	
Leu	Lys	Trp	Leu	Ser	Glu	Trp	Met	Gln	Gly	Asn	Pro	225	230	235					

<210> 13
 <211> 2597
 <212> PRT
 <213> Rattus sp.

<220>

<221> misc_feature
 <222> (1)..(2597)
 <223> 'x' can be any amino acid

<400> 13

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Met Gln Val Arg Gly Arg Glu Val Ser Gly Leu Leu Ile Ser Leu Thr
1          5          10          15

Ala Val Cys Leu Val Val Thr Pro Gly Ser Arg Ala Cys Pro Arg Arg
          20          25          30

Cys Ala Cys Tyr Val Pro Thr Glu Val His Cys Thr Phe Arg Tyr Leu
          35          40          45

Thr Ser Ile Pro Asp Gly Ile Pro Ala Asn Val Glu Arg Ile Asn Leu
          50          55          60

Gly Tyr Asn Ser Leu Thr Arg Leu Thr Glu Asn Asp Phe Asp Gly Leu
65          70          75          80

Ser Lys Leu Glu Leu Leu Met Leu His Ser Asn Gly Ile His Arg Val
          85          90          95

Ser Asp Lys Thr Phe Ser Gly Leu Gln Ser Leu Gln Val Leu Lys Met
          100          105          110

Ser Tyr Asn Lys Val Gln Ile Ile Arg Lys Asp Thr Phe Tyr Gly Leu
          115          120          125

Gly Ser Leu Val Arg Leu His Leu Asp His Asn Asn Ile Glu Phe Ile
          130          135          140

Asn Pro Glu Ala Phe Tyr Gly Leu Thr Ser Leu Arg Leu Val His Leu
145          150          155          160

Glu Gly Asn Arg Leu Thr Lys Leu His Pro Asp Thr Phe Val Ser Leu
          165          170          175

Ser Tyr Leu Gln Ile Phe Lys Thr Ser Phe Ile Lys Tyr Leu Phe Leu
          180          185          190

Ser Asp Asn Phe Leu Thr Ser Leu Pro Lys Glu Met Val Ser Tyr Met
          195          200          205

Pro Asn Leu Glu Ser Leu Tyr Leu His Gly Asn Pro Trp Thr Cys Asp
          210          215          220

Cys His Leu Lys Trp Leu Ser Glu Trp Met Gln Gly Asn Pro Asp Ile
225          230          235          240

Ile Lys Cys Lys Lys Asp Arg Ser Ser Ser Ser Pro Gln Gln Cys Pro
          245          250          255

Leu Cys Met Asn Pro Arg Ile Ser Lys Gly Arg Pro Phe Ala Met Val
          260          265          270

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Glu Gly Met Pro Arg Pro Thr Val Ser Trp Ile Leu Ala Asn Gln
 1745 1750 1755
 Thr Val Val Ser Glu Thr Ala Lys Gly Ser Arg Lys Val Trp Val
 1760 1765 1770
 Thr Pro Asp Gly Thr Leu Ile Ile Tyr Asn Leu Ser Leu Tyr Asp
 1775 1780 1785
 Arg Gly Phe Tyr Lys Cys Val Ala Ser Asn Pro Ser Gly Gln Asp
 1790 1795 1800
 Ser Leu Leu Val Lys Ile Gln Val Ile Thr Ala Pro Pro Val Ile
 1805 1810 1815
 Ile Glu Gln Lys Arg Gln Ala Ile Val Gly Val Leu Gly Gly Ser
 1820 1825 1830
 Leu Lys Leu Pro Cys Thr Ala Lys Gly Thr Pro Gln Pro Ser Val
 1835 1840 1845
 His Trp Val Leu Tyr Asp Gly Thr Glu Leu Lys Pro Leu Gln Leu
 1850 1855 1860
 Thr His Ser Arg Phe Phe Leu Tyr Pro Asn Gly Thr Leu Tyr Ile
 1865 1870 1875
 Arg Ser Ile Ala Pro Ser Val Arg Gly Thr Tyr Glu Cys Ile Ala
 1880 1885 1890
 Thr Ser Ser Ser Gly Ser Glu Arg Arg Val Val Ile Leu Thr Val
 1895 1900 1905
 Glu Glu Gly Glu Thr Ile Pro Arg Ile Glu Thr Ala Ser Gln Lys
 1910 1915 1920
 Trp Thr Glu Val Asn Leu Gly Glu Lys Leu Leu Leu Asn Cys Ser
 1925 1930 1935
 Ala Thr Gly Asp Pro Lys Pro Arg Ile Ile Trp Arg Leu Pro Ser
 1940 1945 1950
 Lys Ala Val Ile Asp Gln Trp His Arg Met Gly Ser Arg Ile His
 1955 1960 1965
 Val Tyr Pro Asn Gly Ser Leu Val Val Gly Ser Val Thr Glu Lys
 1970 1975 1980
 Asp Ala Gly Asp Tyr Leu Cys Val Ala Arg Asn Lys Met Gly Asp
 1985 1990 1995
 Asp Leu Val Leu Met His Val Arg Leu Arg Leu Thr Pro Ala Lys
 2000 2005 2010
 Ile Glu Gln Lys Gln Tyr Phe Lys Lys Gln Val Leu His Gly Lys
 2015 2020 2025

Asp Phe	Gln Val	Asp Cys	Lys	Ala Ser	Gly Ser	Pro	Val Pro	Glu	
2030			2035			2040			
Val Ser	Trp Ser	Leu Pro	Asp	Gly Thr	Val Leu	Asn	Asn Val	Ala	
2045			2050			2055			
Gln Ala	Asp Asp	Ser Gly	Tyr	Arg Thr	Lys Arg	Tyr	Thr Leu	Phe	
2060			2065			2070			
His Asn	Gly Thr	Leu Tyr	Phe	Asn Asn	Val Gly	Met	Ala Glu	Glu	
2075			2080			2085			
Gly Asp	Tyr Ile	Cys Ser	Ala	Gln Asn	Thr Leu	Gly	Lys Asp	Glu	
2090			2095			2100			
Met Lys	Val His	Leu Thr	Val	Leu Thr	Ala Ile	Pro	Arg Ile	Arg	
2105			2110			2115			
Gln Ser	Tyr Lys	Thr Thr	Met	Arg Leu	Arg Ala	Gly	Glu Thr	Ala	
2120			2125			2130			
Val Leu	Asp Cys	Glu Val	Thr	Gly Glu	Pro Lys	Pro	Asn Val	Phe	
2135			2140			2145			
Trp Leu	Leu Pro	Ser Asn	Asn	Val Ile	Ser Phe	Ser	Asn Asp	Arg	
2150			2155			2160			
Phe Thr	Phe His	Ala Asn	Arg	Thr Leu	Ser Ile	His	Lys Val	Lys	
2165			2170			2175			
Pro Leu	Asp Ser	Gly Asp	Tyr	Val Cys	Val Ala	Gln	Asn Pro	Ser	
2180			2185			2190			
Gly Asp	Asp Thr	Lys Thr	Tyr	Lys Leu	Asp Ile	Val	Ser Lys	Pro	
2195			2200			2205			
Pro Leu	Ile Asn	Gly Leu	Tyr	Ala Asn	Lys Thr	Val	Ile Lys	Ala	
2210			2215			2220			
Thr Ala	Ile Arg	His Ser	Lys	Lys Tyr	Phe Asp	Cys	Arg Ala	Asp	
2225			2230			2235			
Gly Ile	Pro Ser	Ser Gln	Val	Thr Trp	Ile Met	Pro	Gly Asn	Ile	
2240			2245			2250			
Phe Leu	Pro Ala	Pro Tyr	Phe	Gly Ser	Arg Val	Thr	Val His	Pro	
2255			2260			2265			
Asn Gly	Thr Leu	Glu Met	Arg	Asn Ile	Arg Leu	Ser	Asp Ser	Ala	
2270			2275			2280			
Asp Phe	Thr Cys	Val Val	Arg	Ser Glu	Gly Gly	Glu	Ser Val	Leu	
2285			2290			2295			
Val Val	Gln Leu	Glu Val	Leu	Glu Met	Leu Arg	Arg	Pro Thr	Phe	
2300			2305			2310			

<210> 14
 <211> 2586
 <212> PRT
 <213> Homo sapiens

<400> 14

Met	Lys	Val	Lys	Gly	Arg	Gly	Ile	Thr	Cys	Leu	Leu	Val	Ser	Phe	Ala	1	5	10	15
Val	Ile	Cys	Leu	Val	Ala	Thr	Pro	Gly	Gly	Lys	Ala	Cys	Pro	Arg	Arg	20	25	30	
Cys	Ala	Cys	Tyr	Met	Pro	Thr	Glu	Val	His	Cys	Thr	Phe	Arg	Tyr	Leu	35	40	45	
Thr	Ser	Ile	Pro	Asp	Ser	Ile	Pro	Pro	Asn	Val	Glu	Arg	Ile	Asn	Leu	50	55	60	
Gly	Tyr	Asn	Ser	Leu	Val	Arg	Leu	Met	Glu	Thr	Asp	Phe	Ser	Gly	Leu	65	70	75	80
Thr	Lys	Leu	Glu	Leu	Leu	Met	Leu	His	Ser	Asn	Gly	Ile	His	Thr	Ile	85	90	95	
Pro	Asp	Lys	Thr	Phe	Ser	Asp	Leu	Gln	Ala	Leu	Gln	Val	Leu	Lys	Met	100	105	110	
Ser	Tyr	Asn	Lys	Val	Arg	Lys	Leu	Gln	Lys	Asp	Thr	Phe	Tyr	Gly	Leu	115	120	125	
Arg	Ser	Leu	Thr	Arg	Leu	His	Met	Asp	His	Asn	Asn	Ile	Glu	Phe	Ile	130	135	140	
Asn	Pro	Glu	Val	Phe	Tyr	Gly	Leu	Asn	Phe	Leu	Arg	Leu	Val	His	Leu	145	150	155	160
Glu	Gly	Asn	Gln	Leu	Thr	Lys	Leu	His	Pro	Asp	Thr	Phe	Val	Ser	Leu	165	170	175	
Ser	Tyr	Leu	Gln	Ile	Phe	Lys	Ile	Ser	Phe	Ile	Lys	Phe	Leu	Tyr	Leu	180	185	190	
Ser	Asp	Asn	Phe	Leu	Thr	Ser	Leu	Pro	Gln	Glu	Met	Val	Ser	Tyr	Met	195	200	205	
Pro	Asp	Leu	Asp	Ser	Leu	Tyr	Leu	His	Gly	Asn	Pro	Trp	Thr	Cys	Asp	210	215	220	
Cys	His	Leu	Lys	Trp	Leu	Ser	Asp	Trp	Ile	Gln	Pro	Asp	Val	Ile	Lys	225	230	235	240
Cys	Lys	Lys	Asp	Arg	Ser	Pro	Ser	Ser	Ala	Gln	Gln	Cys	Pro	Leu	Cys	245	250	255	
Met	Asn	Pro	Arg	Thr	Ser	Lys	Gly	Lys	Pro	Leu	Ala	Met	Val	Ser	Ala				

2585

<210> 15
 <211> 236
 <212> PRT
 <213> Mus musculus
 <220>
 <221> misc_feature
 <222> (1)..(236)
 <223> 'x' can be any amino acid

<400> 15

Met Gln Lys Arg Gly Arg Glu Val Ser Cys Leu Leu Ile Ser Leu Thr
 1 5 10 15
 Ala Ile Cys Leu Val Val Thr Pro Gly Ser Arg Val Cys Pro Arg Arg
 20 25 30
 Cys Ala Cys Tyr Val Pro Thr Glu Val His Cys Thr Phe Arg Asp Leu
 35 40 45
 Thr Ser Ile Pro Asp Gly Pro Ala Asn Val Glu Arg Val Asn Leu Gly
 50 55 60
 Tyr Asn Ser Leu Thr Arg Leu Thr Glu Asn Asp Phe Ser Gly Leu Ser
 65 70 75 80
 Arg Leu Glu Leu Leu Met Leu His Ser Asn Gly Ile His Arg Val Ser
 85 90 95
 Asp Lys Thr Phe Ser Gly Leu Gln Ser Leu Gln Val Leu Lys Met Ser
 100 105 110
 Tyr Asn Lys Val Gln Ile Ile Glu Lys Asp Thr Leu Tyr Gly Leu Arg
 115 120 125
 Ser Leu Thr Arg Leu His Leu Asp His Asn Asn Ile Glu Phe Ile Asn
 130 135 140
 Pro Glu Ala Phe Tyr Gly Leu Thr Leu Leu Arg Leu Val His Leu Glu
 145 150 155 160
 Gly Asn Arg Leu Thr Lys Leu His Pro Asp Thr Phe Val Ser Leu Ser
 165 170 175
 Tyr Leu Gln Ile Phe Lys Thr Ser Phe Ile Lys Xaa Leu Tyr Leu Tyr
 180 185 190
 Asp Asn Phe Thr Ser Leu Pro Lys Glu Met Val Ser Ser Met Pro Asn
 195 200 205
 Leu Glu Ser Leu Tyr Leu His Gly Asn Pro Trp Thr Cys Asp Cys His
 210 215 220

Leu Lys Trp Leu Ser Glu Trp Met Gln Gly Asn Pro
 225 230 235

<210> 16
 <211> 2587
 <212> PRT
 <213> homo sapiens

<400> 16

Met Lys Val Lys Gly Arg Gly Ile Thr Cys Leu Leu Val Ser Phe Ala
 1 5 10 15

Val Ile Cys Leu Val Ala Thr Pro Gly Gly Lys Ala Cys Pro Arg Arg
 20 25 30

Cys Ala Cys Tyr Met Pro Thr Glu Val His Cys Thr Phe Arg Tyr Leu
 35 40 45

Thr Ser Ile Pro Asp Ser Ile Pro Pro Asn Val Glu Arg Ile Asn Leu
 50 55 60

Gly Tyr Asn Ser Leu Val Arg Leu Met Glu Thr Asp Phe Ser Gly Leu
 65 70 75 80

Thr Lys Leu Glu Leu Leu Met Leu His Ser Asn Gly Ile His Thr Ile
 85 90 95

Pro Asp Lys Thr Phe Ser Asp Leu Gln Ala Leu Gln Val Leu Lys Met
 100 105 110

Ser Tyr Asn Lys Val Arg Lys Leu Gln Lys Asp Thr Phe Tyr Gly Leu
 115 120 125

Arg Ser Leu Thr Arg Leu His Met Asp His Asn Asn Ile Glu Phe Ile
 130 135 140

Asn Pro Glu Val Phe Tyr Gly Leu Asn Phe Leu Arg Leu Val His Leu
 145 150 155 160

Glu Gly Asn Gln Leu Thr Lys Leu His Pro Asp Thr Phe Val Ser Leu
 165 170 175

Ser Tyr Leu Gln Ile Phe Lys Ile Ser Phe Ile Lys Phe Leu Tyr Leu
 180 185 190

Ser Asp Asn Phe Leu Thr Ser Leu Pro Gln Glu Met Val Ser Tyr Met
 195 200 205

Pro Asp Leu Asp Ser Leu Tyr Leu His Gly Asn Pro Trp Thr Cys Asp
 210 215 220

Cys His Leu Lys Trp Leu Ser Asp Trp Ile Gln Pro Asp Val Ile Lys
 225 230 235 240

Cys Lys Lys Asp Arg Ser Pro Ser Ser Ala Gln Gln Cys Pro Leu Cys
 245 250 255

Met	Asn	Pro	Arg	Thr	Ser	Lys	Gly	Lys	Pro	Leu	Ala	Met	Val	Ser	Ala
			260					265					270		
Ala	Ala	Phe	Gln	Cys	Ala	Lys	Pro	Thr	Ile	Asp	Ser	Ser	Leu	Lys	Ser
		275					280					285			
Lys	Ser	Leu	Thr	Ile	Leu	Glu	Asp	Ser	Ser	Ser	Ala	Phe	Ile	Ser	Pro
	290					295					300				
Gln	Gly	Phe	Met	Ala	Pro	Phe	Gly	Ser	Leu	Thr	Leu	Asn	Met	Thr	Asp
305					310					315					320
Gln	Ser	Gly	Asn	Glu	Ala	Asn	Met	Val	Cys	Ser	Ile	Gln	Lys	Pro	Ser
				325					330					335	
Arg	Thr	Ser	Pro	Ile	Ala	Phe	Thr	Glu	Glu	Asn	Asp	Tyr	Ile	Val	Leu
			340					345					350		
Asn	Thr	Ser	Phe	Ser	Thr	Phe	Leu	Val	Cys	Asn	Ile	Asp	Tyr	Gly	His
		355					360					365			
Ile	Gln	Pro	Val	Trp	Gln	Ile	Leu	Ala	Leu	Tyr	Ser	Asp	Ser	Pro	Leu
	370					375					380				
Ile	Leu	Glu	Arg	Ser	His	Leu	Leu	Ser	Glu	Thr	Pro	Gln	Leu	Tyr	Tyr
385					390					395					400
Lys	Tyr	Lys	Gln	Val	Ala	Pro	Lys	Pro	Glu	Asp	Ile	Phe	Thr	Asn	Ile
				405					410					415	
Glu	Ala	Asp	Leu	Arg	Ala	Asp	Pro	Ser	Trp	Leu	Met	Gln	Asp	Gln	Ile
			420					425					430		
Ser	Leu	Gln	Leu	Asn	Arg	Thr	Ala	Thr	Thr	Phe	Ser	Thr	Leu	Gln	Ile
		435					440					445			
Gln	Tyr	Ser	Ser	Asp	Ala	Gln	Ile	Thr	Leu	Pro	Arg	Ala	Glu	Met	Arg
	450					455					460				
Pro	Val	Lys	His	Lys	Trp	Thr	Met	Ile	Ser	Arg	Asp	Asn	Asn	Thr	Lys
465					470					475					480
Leu	Glu	His	Thr	Val	Leu	Val	Gly	Gly	Thr	Val	Gly	Leu	Asn	Cys	Pro
				485					490					495	
Gly	Gln	Gly	Asp	Pro	Thr	Pro	His	Val	Asp	Trp	Leu	Leu	Ala	Asp	Gly
			500					505					510		
Ser	Lys	Val	Arg	Ala	Pro	Tyr	Val	Ser	Glu	Asp	Gly	Arg	Ile	Leu	Ile
		515					520					525			
Asp	Lys	Ser	Gly	Lys	Leu	Glu	Leu	Gln	Met	Ala	Asp	Ser	Phe	Asp	Thr
	530					535					540				
Gly	Val	Tyr	His	Cys	Ile	Ser	Ser	Asn	Tyr	Asp	Asp	Ala	Asp	Ile	Leu
545					550					555					560

Ser Tyr	Pro Arg Val	Ser Ser	Thr Asn Glu Ala	Lys	Arg Asp Ser
1160		1165		1170	
Val Ile	Thr Ser Ser Leu	Ser	Gly Ala Ile Thr	Lys	Pro Pro Met
1175		1180		1185	
Thr Ile	Ile Ala Ile Thr	Arg	Phe Ser Arg Arg	Lys	Ile Pro Trp
1190		1195		1200	
Gln Gln	Asn Phe Val Asn Asn	His Asn Pro Lys	Gly	Arg Leu Arg	
1205		1210		1215	
Asn Gln	His Lys Val Ser Leu	Gln Lys Ser Thr	Ala	Val Met Leu	
1220		1225		1230	
Pro Lys	Thr Ser Pro Ala Leu	Pro Gln Arg Gln	Ser	Ser Pro Phe	
1235		1240		1245	
His Phe	Thr Thr Leu Ser Thr	Ser Val Met Gln	Ile	Pro Ser Asn	
1250		1255		1260	
Thr Leu	Thr Thr Ala His His	Thr Thr Thr Lys	Thr	His Asn Pro	
1265		1270		1275	
Gly Ser	Leu Pro Thr Lys Lys	Glu Leu Pro Phe	Pro	Pro Leu Asn	
1280		1285		1290	
Pro Met	Leu Pro Ser Ile Ile	Ser Lys Asp Ser	Ser	Thr Lys Ser	
1295		1300		1305	
Ile Ile	Ser Thr Gln Thr Ala	Ile Pro Ala Thr	Thr	Pro Thr Phe	
1310		1315		1320	
Pro Ala	Ser Val Ile Thr Tyr	Glu Thr Gln Thr	Glu	Arg Ser Arg	
1325		1330		1335	
Ala Gln	Thr Ile Gln Arg Glu	Gln Glu Pro Gln	Lys	Lys Asn Arg	
1340		1345		1350	
Thr Asp	Pro Asn Ile Ser Pro	Asp Gln Ser Ser	Gly	Phe Thr Thr	
1355		1360		1365	
Pro Thr	Ala Met Thr Pro Pro	Ala Leu Ala Phe	Thr	His Ser Pro	
1370		1375		1380	
Pro Glu	Asn Thr Thr Gly Ile	Ser Ser Thr Ile	Ser	Phe His Ser	
1385		1390		1395	
Arg Thr	Leu Asn Leu Thr Asp	Val Ile Glu Glu	Leu	Ala Gln Ala	
1400		1405		1410	
Ser Thr	Gln Thr Leu Lys Ser	Thr Ile Ala Ser	Glu	Thr Thr Leu	
1415		1420		1425	
Ser Ser	Lys Ser His Gln Ser	Thr Thr Thr Arg	Lys	Ala Ser Leu	
1430		1435		1440	

Ser Thr	Val Glu Leu Lys Cys	Arg Ala Glu Gly Arg	Pro Ser Pro
1730	1735	1740	
Thr Val	Thr Trp Ile Leu Ala	Asn Gln Thr Val Val	Ser Glu Ser
1745	1750	1755	
Ser Gln	Gly Ser Arg Gln Ala	Val Val Thr Val Asp	Gly Thr Leu
1760	1765	1770	
Val Leu	His Asn Leu Ser Ile	Tyr Asp Arg Gly Phe	Tyr Lys Cys
1775	1780	1785	
Val Ala	Ser Asn Pro Gly Gly	Gln Asp Ser Leu Leu	Val Lys Ile
1790	1795	1800	
Gln Val	Ile Ala Ala Pro Pro	Val Ile Leu Glu Gln	Arg Arg Gln
1805	1810	1815	
Val Ile	Val Gly Thr Trp Gly	Glu Ser Leu Lys Leu	Pro Cys Thr
1820	1825	1830	
Ala Lys	Gly Thr Pro Gln Pro	Ser Val Tyr Trp Val	Leu Ser Asp
1835	1840	1845	
Gly Thr	Glu Val Lys Pro Leu	Gln Phe Thr Asn Ser	Lys Leu Phe
1850	1855	1860	
Leu Phe	Ser Asn Gly Thr Leu	Tyr Ile Arg Asn Leu	Ala Ser Ser
1865	1870	1875	
Asp Arg	Gly Thr Tyr Glu Cys	Ile Ala Thr Ser Ser	Thr Gly Ser
1880	1885	1890	
Glu Arg	Arg Val Val Met Leu	Thr Met Glu Glu Arg	Val Thr Ser
1895	1900	1905	
Pro Arg	Ile Glu Ala Ala Ser	Gln Lys Arg Thr Glu	Val Asn Phe
1910	1915	1920	
Gly Asp	Lys Leu Leu Leu Asn	Cys Ser Ala Thr Gly	Glu Pro Lys
1925	1930	1935	
Pro Gln	Ile Met Trp Arg Leu	Pro Ser Lys Ala Val	Val Asp Gln
1940	1945	1950	
Gly Ser	Trp Ile His Val Tyr	Pro Asn Gly Ser Leu	Phe Ile Gly
1955	1960	1965	
Ser Val	Thr Glu Lys Asp Ser	Gly Val Tyr Leu Cys	Val Ala Arg
1970	1975	1980	
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 Glu Ser Val Thr Leu Pro Cys Asn Ala Leu Ala Ile Pro Glu Ala His
 595 600 605
 Leu Ser Trp Ile Leu Pro Asn Arg Arg Ile Ile Asn Asp Leu Ala Asn
 610 615 620
 Thr Ser His Val Tyr Met Leu Pro Asn Gly Thr Leu Ser Ile Pro Lys
 625 630 635 640
 Val Gln Val Ser Asp Ser Gly Tyr Tyr Arg Cys Val Ala Val Asn Gln
 645 650 655
 Gln Gly Ala Asp His Phe Thr Val Gly Ile Thr Val Thr Lys Lys Gly
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 Ser Gly Leu Pro Ser Lys Arg Gly Arg Arg Pro Gly Ala Lys Ala Leu
 675 680 685
 Ser Arg Val Arg Glu Asp Ile Val Glu Asp Glu Gly Gly Ser Gly Met
 690 695 700
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 Ala Lys Lys Gly Arg Arg Lys Leu Lys Leu Trp Lys His Ser Glu Lys
 740 745 750
 Glu Pro Glu Thr Asn Val Ala Glu Gly Arg Arg Val Phe Glu Ser Arg
 755 760 765
 Arg Arg Ile Asn Met Ala Asn Lys Gln Ile Asn Pro Glu Arg Trp Ala
 770 775 780
 Asp Ile Leu Ala Lys Val Arg Gly Lys Asn Leu Pro Lys Gly Thr Glu
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 Val Pro Pro Leu Ile Lys Thr Thr Ser Pro Pro Ser Leu Ser Leu Glu
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 Val Thr Pro Pro Phe Pro Ala Val Ser Pro Pro Ser Ala Ser Pro Val
 820 825 830
 Gln Thr Val Thr Ser Ala Glu Glu Ser Ser Ala Asp Val Pro Leu Leu
 835 840 845
 Gly Glu Glu Glu His Val Leu Gly Thr Ile Ser Ser Ala Ser Met Gly
 850 855 860
 Leu Glu His Asn His Asn Gly Val Ile Leu Val Glu Pro Glu Val Thr
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Ser Thr Pro Leu Glu Glu Val Val Asp Asp Leu Ser Glu Lys Thr Glu
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Glu Ile Thr Ser Thr Glu Gly Asp Leu Lys Gly Thr Ala Ala Pro Thr
900 905 910

Leu Ile Ser Glu Pro Tyr Glu Pro Ser Pro Thr Leu His Thr Leu Asp
915 920 925

Thr Val Tyr Glu Lys Pro Thr His Glu Glu Thr Ala Thr Glu Gly Trp
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Ser Ala Ala Asp Val Gly Ser Ser Pro Glu Pro Thr Ser Ser Glu Tyr
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Glu Pro Pro Leu Asp Ala Val Ser Leu Ala Glu Ser Glu Pro Met Gln
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Tyr Phe Asp Pro Asp Leu Glu Thr Lys Ser Gln Pro Asp Glu Asp Lys
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Met Lys Glu Asp Thr Phe Ala His Leu Thr Pro Thr Pro Thr Ile Trp
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Val Asn Asp Ser Ser Thr Ser Gln Leu Phe Glu Asp Ser Thr Ile
1010 1015 1020

Gly Glu Pro Gly Val Pro Gly Gln Ser His Leu Gln Gly Leu Thr
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Asp Asn Ile His Leu Val Lys Ser Ser Leu Ser Thr Gln Asp Thr
1040 1045 1050

Leu Leu Ile Lys Lys Gly Met Lys Glu Met Ser Gln Thr Leu Gln
1055 1060 1065

Gly Gly Asn Met Leu Glu Gly Asp Pro Thr His Ser Arg Ser Ser
1070 1075 1080

Glu Ser Glu Gly Gln Glu Ser Lys Ser Ile Thr Leu Pro Asp Ser
1085 1090 1095

Thr Leu Gly Ile Met Ser Ser Met Ser Pro Val Lys Lys Pro Ala
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Glu Thr Thr Val Gly Thr Leu Leu Asp Lys Asp Thr Thr Thr Val
1115 1120 1125

Thr Thr Thr Pro Arg Gln Lys Val Ala Pro Ser Ser Thr Met Ser
1130 1135 1140

Thr His Pro Ser Arg Arg Arg Pro Asn Gly Arg Arg Arg Leu Arg
1145 1150 1155

Pro Asn Lys Phe Arg His Arg His Lys Gln Thr Pro Pro Thr Thr
1160 1165 1170

Phe	Ala	Pro	Ser	Glu	Thr	Phe	Ser	Thr	Gln	Pro	Thr	Gln	Ala	Pro
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Asp	Ile	Lys	Ile	Ser	Ser	Gln	Val	Glu	Ser	Ser	Leu	Val	Pro	Thr
1190						1195					1200			
Ala	Trp	Val	Asp	Asn	Thr	Val	Asn	Thr	Pro	Lys	Gln	Leu	Glu	Met
1205						1210					1215			
Glu	Lys	Asn	Ala	Glu	Pro	Thr	Ser	Lys	Gly	Thr	Pro	Arg	Arg	Lys
1220						1225					1230			
His	Gly	Lys	Arg	Pro	Asn	Lys	His	Arg	Tyr	Thr	Pro	Ser	Thr	Val
1235						1240					1245			
Ser	Ser	Arg	Ala	Ser	Gly	Ser	Lys	Pro	Ser	Pro	Ser	Pro	Glu	Asn
1250						1255					1260			
Lys	His	Arg	Asn	Ile	Val	Thr	Pro	Ser	Ser	Glu	Thr	Ile	Leu	Leu
1265						1270					1275			
Pro	Arg	Thr	Val	Ser	Leu	Lys	Thr	Glu	Gly	Pro	Tyr	Asp	Ser	Leu
1280						1285					1290			
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1295						1300					1305			
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1310						1315					1320			
Lys	Glu	Ile	Lys	Asp	Asp	Val	Ala	Thr	Asn	Val	Asp	Lys	His	Lys
1325						1330					1335			
Ser	Asp	Ile	Leu	Val	Thr	Gly	Glu	Ser	Ile	Thr	Asn	Ala	Ile	Pro
1340						1345					1350			
Thr	Ser	Arg	Ser	Leu	Val	Ser	Thr	Met	Gly	Glu	Phe	Lys	Glu	Glu
1355						1360					1365			
Ser	Ser	Pro	Val	Gly	Phe	Pro	Gly	Thr	Pro	Thr	Trp	Asn	Pro	Ser
1370						1375					1380			
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1385						1390					1395			
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1400						1405					1410			
Glu	Asp	Val	Asp	Phe	Thr	Ser	Glu	Phe	Leu	Ser	Ser	Leu	Thr	Val
1415						1420					1425			
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1430						1435					1440			
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1445						1450					1455			

Gly Val	Thr Arg Arg Pro	Gln Ile Pro Thr Ser	Pro Ala Pro Val
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Ser His	Ser Thr Phe His	Leu Asp Phe Gly Pro	Pro Ala Pro Pro
1775		1780	1785
Leu Leu	His Thr Pro Gln	Thr Thr Gly Ser Pro	Ser Thr Asn Leu
1790		1795	1800
Gln Asn	Ile Pro Met Val	Ser Ser Thr Gln Ser	Ser Ile Ser Phe
1805		1810	1815
Ile Thr	Ser Ser Val Gln	Ser Ser Gly Ser Phe	His Gln Ser Ser
1820		1825	1830
Ser Lys	Phe Phe Ala Gly	Gly Pro Pro Ala Ser	Lys Phe Trp Ser
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Leu Gly	Glu Lys Pro Gln	Ile Leu Thr Lys Ser	Pro Gln Thr Val
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Ser Val	Thr Ala Glu Thr	Asp Thr Val Phe Pro	Cys Glu Ala Thr
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Gly Lys	Pro Lys Pro Phe	Val Thr Trp Thr Lys	Val Ser Thr Gly
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Ala Leu	Met Thr Pro Asn	Thr Arg Ile Gln Arg	Phe Glu Val Leu
1895		1900	1905
Lys Asn	Gly Thr Leu Val	Ile Arg Lys Val Gln	Val Gln Asp Arg
1910		1915	1920
Gly Gln	Tyr Met Cys Thr	Ala Ser Asn Leu His	Gly Leu Asp Arg
1925		1930	1935
Met Val	Val Leu Leu Ser	Val Thr Val Gln Gln	Pro Gln Ile Leu
1940		1945	1950
Ala Ser	His Tyr Gln Asp	Val Thr Val Tyr Leu	Gly Asp Thr Ile
1955		1960	1965
Ala Met	Glu Cys Leu Ala	Lys Gly Thr Pro Ala	Pro Gln Ile Ser
1970		1975	1980
Trp Ile	Phe Pro Asp Arg	Arg Val Trp Gln Thr	Val Ser Pro Val
1985		1990	1995
Glu Ser	Arg Ile Thr Leu	His Glu Asn Arg Thr	Leu Ser Ile Lys
2000		2005	2010
Glu Ala	Ser Phe Ser Asp	Arg Gly Val Tyr Lys	Cys Val Ala Ser
2015		2020	2025

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Leu	Pro	Pro	Gly	Leu	Ser	Ile	His	Ile	His	Cys	Thr	Ala	Lys	Ala
2060						2065					2070			
Ala	Pro	Leu	Pro	Ser	Val	Arg	Trp	Val	Leu	Gly	Asp	Gly	Thr	Gln
2075						2080					2085			
Ile	Arg	Pro	Ser	Gln	Phe	Leu	His	Gly	Asn	Leu	Phe	Val	Phe	Pro
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Arg	Tyr	Glu	Cys	Val	Ala	Ala	Asn	Leu	Val	Gly	Ser	Ala	Arg	Arg
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Thr	Val	Gln	Leu	Asn	Val	Gln	Arg	Ala	Ala	Ala	Asn	Ala	Arg	Ile
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Thr	Gly	Thr	Ser	Pro	Arg	Arg	Thr	Asp	Val	Arg	Tyr	Gly	Gly	Thr
2150						2155					2160			
Leu	Lys	Leu	Asp	Cys	Ser	Ala	Ser	Gly	Asp	Pro	Trp	Pro	Arg	Ile
2165						2170					2175			
Leu	Trp	Arg	Leu	Pro	Ser	Lys	Arg	Met	Ile	Asp	Ala	Leu	Phe	Ser
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Phe	Asp	Ser	Arg	Ile	Lys	Val	Phe	Ala	Asn	Gly	Thr	Leu	Val	Val
2195						2200					2205			
Lys	Ser	Val	Thr	Asp	Lys	Asp	Ala	Gly	Asp	Tyr	Leu	Cys	Val	Ala
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2285						2290					2295			
Lys	Arg	Tyr	Val	Val	Phe	Asn	Asn	Gly	Thr	Leu	Tyr	Phe	Asn	Glu
2300						2305					2310			

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 Pro Tyr Gly Asp Val Val Thr Val Ala Cys Glu Ala Lys Gly Glu
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 Pro Thr Ser Ser Glu Lys Tyr Gln Ile Tyr Gln Asp Gly Thr Leu
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 His Val Asn Val Gln Pro Pro Lys Ile Asn Gly Asn Pro Asn Pro
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 Ile Thr Thr Val Arg Glu Ile Ala Ala Gly Gly Ser Arg Lys Leu
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 2465 2470 2475
 Ala Phe Pro Glu Gly Val Val Leu Pro Ala Pro Tyr Tyr Gly Asn
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 Arg Ile Thr Val His Gly Asn Gly Ser Leu Asp Ile Arg Ser Leu
 2495 2500 2505
 Arg Lys Ser Asp Ser Val Gln Leu Val Cys Met Ala Arg Asn Glu
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 Gly Gly Glu Ala Arg Leu Ile Val Gln Leu Thr Val Leu Glu Pro
 2525 2530 2535
 Met Glu Lys Pro Ile Phe His Asp Pro Ile Ser Glu Lys Ile Thr
 2540 2545 2550
 Ala Met Ala Gly His Thr Ile Ser Leu Asn Cys Ser Ala Ala Gly
 2555 2560 2565
 Thr Pro Thr Pro Ser Leu Val Trp Val Leu Pro Asn Gly Thr Asp
 2570 2575 2580
 Leu Gln Ser Gly Gln Gln Leu Gln Arg Phe Tyr His Lys Ala Asp
 2585 2590 2595

Gly Met Leu His Ile Ser Gly Leu Ser Ser Val Asp Ala Gly Ala
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 Tyr Arg Cys Val Ala Arg Asn Ala Ala Gly His Thr Glu Arg Leu
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 Val Ser Leu Lys Val Gly Leu Lys Pro Glu Ala Asn Lys Gln Tyr
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 His Asn Leu Val Ser Ile Ile Asn Gly Glu Thr Leu Lys Leu Pro
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 Cys Thr Pro Pro Gly Ala Gly Gln Gly Arg Phe Ser Trp Thr Leu
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 Pro Asn Gly Met His Leu Glu Gly Pro Gln Thr Leu Gly Arg Val
 2675 2680 2685
 Ser Leu Leu Asp Asn Gly Thr Leu Thr Val Arg Glu Ala Ser Val
 2690 2695 2700
 Phe Asp Arg Gly Thr Tyr Val Cys Arg Met Glu Thr Glu Tyr Gly
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 Pro Ser Val Thr Ser Ile Pro Val Ile Val Ile Ala Tyr Pro Pro
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 Arg Ile Thr Ser Glu Pro Thr Pro Val Ile Tyr Thr Arg Pro Gly
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 Asn Thr Val Lys Leu Asn Cys Met Ala Met Gly Ile Pro Lys Ala
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 Val Gln Ala Arg Leu Tyr Gly Asn Arg Phe Leu His Pro Gln Gly
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<222> (1)..(9645)

<223> 'n' can be any nucleotide 'a', 'c', 'g' or 't'.

[illegible]

Figure 1. The effect of the concentration of the H_2O_2 solution on the rate of the reaction of the H_2O_2 solution with the H_2O solution. The concentration of the H_2O_2 solution was 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 2.0, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9, 3.0, 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 3.9, 4.0, 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 5.0, 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 5.8, 5.9, 6.0, 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.8, 6.9, 7.0, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8, 7.9, 8.0, 8.1, 8.2, 8.3, 8.4, 8.5, 8.6, 8.7, 8.8, 8.9, 9.0, 9.1, 9.2, 9.3, 9.4, 9.5, 9.6, 9.7, 9.8, 9.9, 10.0, 10.1, 10.2, 10.3, 10.4, 10.5, 10.6, 10.7, 10.8, 10.9, 11.0, 11.1, 11.2, 11.3, 11.4, 11.5, 11.6, 11.7, 11.8, 11.9, 12.0, 12.1, 12.2, 12.3, 12.4, 12.5, 12.6, 12.7, 12.8, 12.9, 13.0, 13.1, 13.2, 13.3, 13.4, 13.5, 13.6, 13.7, 13.8, 13.9, 14.0, 14.1, 14.2, 14.3, 14.4, 14.5, 14.6, 14.7, 14.8, 14.9, 15.0, 15.1, 15.2, 15.3, 15.4, 15.5, 15.6, 15.7, 15.8, 15.9, 16.0, 16.1, 16.2, 16.3, 16.4, 16.5, 16.6, 16.7, 16.8, 16.9, 17.0, 17.1, 17.2, 17.3, 17.4, 17.5, 17.6, 17.7, 17.8, 17.9, 18.0, 18.1, 18.2, 18.3, 18.4, 18.5, 18.6, 18.7, 18.8, 18.9, 19.0, 19.1, 19.2, 19.3, 19.4, 19.5, 19.6, 19.7, 19.8, 19.9, 20.0, 20.1, 20.2, 20.3, 20.4, 20.5, 20.6, 20.7, 20.8, 20.9, 21.0, 21.1, 21.2, 21.3, 21.4, 21.5, 21.6, 21.7, 21.8, 21.9, 22.0, 22.1, 22.2, 22.3, 22.4, 22.5, 22.6, 22.7, 22.8, 22.9, 23.0, 23.1, 23.2, 23.3, 23.4, 23.5, 23.6, 23.7, 23.8, 23.9, 24.0, 24.1, 24.2, 24.3, 24.4, 24.5, 24.6, 24.7, 24.8, 24.9, 25.0, 25.1, 25.2, 25.3, 25.4, 25.5, 25.6, 25.7, 25.8, 25.9, 26.0, 26.1, 26.2, 26.3, 26.4, 26.5, 26.6, 26.7, 26.8, 26.9, 27.0, 27.1, 27.2, 27.3, 27.4, 27.5, 27.6, 27.7, 27.8, 27.9, 28.0, 28.1, 28.2, 28.3, 28.4, 28.5, 28.6, 28.7, 28.8, 28.9, 29.0, 29.1, 29.2, 29.3, 29.4, 29.5, 29.6, 29.7, 29.8, 29.9, 30.0, 30.1, 30.2, 30.3, 30.4, 30.5, 30.6, 30.7, 30.8, 30.9, 31.0, 31.1, 31.2, 31.3, 31.4, 31.5, 31.6, 31.7, 31.8, 31.9, 32.0, 32.1, 32.2, 32.3, 32.4, 32.5, 32.6, 32.7, 32.8, 32.9, 33.0, 33.1, 33.2, 33.3, 33.4, 33.5, 33.6, 33.7, 33.8, 33.9, 34.0, 34.1, 34.2, 34.3, 34.4, 34.5, 34.6, 34.7, 34.8, 34.9, 35.0, 35.1, 35.2, 35.3, 35.4, 35.5, 35.6, 35.7, 35.8, 35.9, 36.0, 36.1, 36.2, 36.3, 36.4, 36.5, 36.6, 36.7, 36.8, 36.9, 37.0, 37.1, 37.2, 37.3, 37.4, 37.5, 37.6, 37.7, 37.8, 37.9, 38.0, 38.1, 38.2, 38.3, 38.4, 38.5, 38.6, 38.7, 38.8, 38.9, 39.0, 39.1, 39.2, 39.3, 39.4, 39.5, 39.6, 39.7, 39.8, 39.9, 40.0, 40.1, 40.2, 40.3, 40.4, 40.5, 40.6, 40.7, 40.8, 40.9, 41.0, 41.1, 41.2, 41.3, 41.4, 41.5, 41.6, 41.7, 41.8, 41.9, 42.0, 42.1, 42.2, 42.3, 42.4, 42.5, 42.6, 42.7, 42.8, 42.9, 43.0, 43.1, 43.2, 43.3, 43.4, 43.5, 43.6, 43.7, 43.8, 43.9, 44.0, 44.1, 44.2, 44.3, 44.4, 44.5, 44.6, 44.7, 44.8, 44.9, 45.0, 45.1, 45.2, 45.3, 45.4, 45.5, 45.6, 45.7, 45.8, 45.9, 46.0, 46.1, 46.2, 46.3, 46.4, 46.5, 46.6, 46.7, 46.8, 46.9, 47.0, 47.1, 47.2, 47.3, 47.4, 47.5, 47.6, 47.7, 47.8, 47.9, 48.0, 48.1, 48.2, 48.3, 48.4, 48.5, 48.6, 48.7, 48.8, 48.9, 49.0, 49.1, 49.2, 49.3, 49.4, 49.5, 49.6, 49.7, 49.8, 49.9, 50.0, 50.1, 50.2, 50.3, 50.4, 50.5, 50.6, 50.7, 50.8, 50.9, 51.0, 51.1, 51.2, 51.3, 51.4, 51.5, 51.6, 51.7, 51.8, 51.9, 52.0, 52.1, 52.2, 52.3, 52.4, 52.5, 52.6, 52.7, 52.8, 52.9, 53.0, 53.1, 53.2, 53.3, 53.4, 53.5, 53.6, 53.7, 53.8, 53.9, 54.0, 54.1, 54.2, 54.3, 54.4, 54.5, 54.6, 54.7, 54.8, 54.9, 55.0, 55.1, 55.2, 55.3, 55.4, 55.5, 55.6, 55.7, 55.8, 55.9, 56.0, 56.1, 56.2, 56.3, 56.4, 56.5, 56.6, 56.7, 56.8, 56.9, 57.0, 57.1, 57.2, 57.3, 57.4, 57.5, 57.6, 57.7, 57.8, 57.9, 58.0, 58.1, 58.2, 58.3, 58.4, 58.5, 58.6, 58.7, 58.8, 58.9, 59.0, 59.1, 59.2, 59.3, 59.4, 59.5, 59.6, 59.7, 59.8, 59.9, 60.0, 60.1, 60.2, 60.3, 60.4, 60.5, 60.6, 60.7, 60.8, 60.9, 61.0, 61.1, 61.2, 61.3, 61.4, 61.5, 61.6, 61.7, 61.8, 61.9, 62.0, 62.1, 62.2, 62.3, 62.4, 62.5, 62.6, 62.7, 62.8, 62.9, 63.0, 63.1, 63.2, 63.3, 63.4, 63.5, 63.6, 63.7, 63.8, 63.9, 64.0, 64.1, 64.2, 64.3, 64.4, 64.5, 64.6, 64.7, 64.8, 64.9, 65.0, 65.1, 65.2, 65.3, 65.4, 65.5, 65.6, 65.7, 65.8, 65.9, 66.0, 66.1, 66.2, 66.3, 66.4, 66.5, 66.6, 66.7, 66.8, 66.9, 67.0, 67.1, 67.2, 67.3, 67.4, 67.5, 67.6, 67.7, 67.8, 67.9, 68.0, 68.1, 68.2, 68.

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